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6 February 2003

Mme. Séverine Poette 2 chemin de la Bouverie F-28350 Dampierre sur Avre FRANCE

Re:

United States Application No. 09/381,890

PCT/GB98/00950 (WO 98/44898)

DEPILATORY COMPOSITIONS, THEIR PREPARATION AND USE

Our Ref.: 08291-619001

Dear Mme. Poette:

In order to proceed with the above-identified United States Patent Application for Project System H, it is necessary for you to execute the enclosed Combined Declaration and Power of Attorney. Attached to the Declaration is a complete copy of the Application including the written description, claims and drawings, which was published as WO98/44898 on 15 October 1998.

I believe that Karen Grant spoke to you about this earlier today and you have agreed to sign the Declaration. Please sign the enclosed Declaration without detaching WO98/44898.

Enclosed also is a pre-paid FedEx envelope. Please return it to FedEx as soon as possible. The attached € 10 note is for reimbursement of any expenses that you may incur.

I thank you in anticipation of your prompt attention to this matter and look forward to receiving the executed document as a matter of extreme urgency.

Yours very truly,

Frederick H. Rabin

FHR/myw

Enclosure

c: Ms Karen R. Grant, Reckitt Benckiser plc, Ref. 10456P2USw

PCT

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(57) Abstract

A depilatory composition in the form of an aqueous gel comprises a substance capable of degrading hair keratin and a water-soluble polymeric binder and is buffered to a pH of from 10.5 to 13.0. The polymeric binder is formed from a first component that is a charged cross-linked polymer and a second component that comprises a linear non-ionic and/or charged polymer. The composition is preferably in the form of a stable gel that can be applied by means of a pump spray.

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DEPILATORY COMPOSITIONS, THEIR PREPARATION AND USE

This invention relates to depilatory compositions, in particular those in the form of a gel.

5 Compositions for removing superfluous body hair are well known. These are of various types. One type of composition is in the form of a cream containing a depilatory agent which degrades hair keratin. In the case of a depilatory cream, hair is removed by applying the cream to an area of skin to 10 be depilated, leaving the cream on the skin for sufficient time for the hair to be chemically dissolved, and then wiping and/or washing the cream and unwanted hair from the skin. Another type of composition is in the form of a wax, which is 15 initially heated before being applied to the skin in a generally molten state. It is then allowed to solidify before being removed from the skin together with unwanted hair.

Dritish patent specification no. GB 2 223 170 discloses a two-part depilatory composition in which the first part comprises polyvinyl alcohol (PVA) and the second part comprises borax and a polyhydroxy alcohol, or Congo red; the second part functioning to effect a controlled rate of cross-linking of the PVA.

25 After in situ cross-linking, such compositions solidify, requiring the use of a plasticiser to enable the solid to be peeled from the skin. Such compositions preferably also include a surfactant.

Depilatory compositions in the form of a gel are less common and attempts to market such gels have had

only limited success. The gels tended to have a higher skin irritancy than cream depilatories and became very sticky when being rinsed off because of the nature of the polymer present in the formulation. Moreover, depilatory compositions need to be of high pH, and problems were encountered in formulating a gel which would be stable in such highly alkaline conditions.

It is an aim of the present invention to provide a depilatory composition in the form of a gel which does not suffer from these disadvantages.

It is a further aim of the present invention to provide a depilatory composition in the form of a gel which may be sprayed onto the skin without propellant.

It is another aim of the present invention to provide a depilatory gel having a reduced tendency to irritate the skin.

It has been found that these aims can be achieved by forming a gel from two water-soluble polymeric components and in a pH environment maintained by a preferred buffer system. One of the polymeric components provides the gel with appropriate viscosity and the other polymeric component contributes to the stability of the gel.

Accordingly, one aspect of the present invention provides a depilatory composition in the form of an aqueous alkaline gel comprising:-



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- (i) a first polymeric binder comprising a charged, cross-linked, water-soluble polymer;
- (ii) a second polymeric binder comprising a
 linear, water-soluble polymer;
 - (iii) a depilatory agent; and
- (iv) a buffer system capable of maintaining the pH of the composition at a value of from 10.5 to 13.0.

Preferably, the composition remains in the form of an aqueous alkaline gel in use.

- According to another aspect of the present invention, there is provided a process for producing a depilatory composition, which process comprises:-
- (i) forming a first premix by mixing water and
 a first polymeric binder comprising a
 charged, cross-linked, water-soluble
 polymer; forming a second premix by mixing
 water, a buffer and a second polymeric
 binder comprising a linear, water-soluble
 polymer; and optionally forming a third
 premix by mixing a depilatory agent and a
 keratin degradation accelerator;
 - (ii) adding a depilatory agent or the third premix to the second premix with stirring;



- (iii) adding the first premix to the resultant mixture with stirring; and
- (iv) adjusting the pH to between 10.5 and 13.0.

The depilatory compositions of the present invention accordingly possess unique rheological qualities, which can be defined inter alia by their characteristic viscosity properties. For example, the shear rate (in seconds⁻¹) needed to decrease the 10 viscosity of the gel by half is in the range of from about 10^{-2} s⁻¹ to about 200 s⁻¹, preferably from about 1 s⁻¹ to about 50 s⁻¹. Such a large drop in the viscosity of depilatory compositions is not seen with prior art formulations over these shear rate ranges. 15 At a low shear rate of about 10⁻² s⁻¹, the viscosity of the compositions of the present invention is of the order of 103 Pas (106 cP), whereas at a high shear rate of about 500 s⁻¹, their viscosity is of the order of about 0.1 Pas (100 cP). At a very high shear rate of the order of $4 \times 10^4 \text{ s}^{-1}$, such as that effected by a 20 spray-pump (see Table 2 below), it is extremely difficult to measure viscosity, but it can be envisaged that that of the compositions of the present invention would be very low.

25 Preferably, a gel in accordance with the present invention has unique viscosity and elasticity, sustained high ionic strength and high pH.

The cross-linked polymer of the first component is such that it swells at high pH (pH 10.5 to 13) and preferably has only carbon-carbon bond

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cross-linkages. More preferably, the elastic modulus of the first component is in the range of from 200 Pa to 1000 Pa, conveniently, 400 Pa to 600 Pa, when measured at a frequency of 10 rad/s; at a temperature of 20°C and a strain of 0.1. The elastic (storage) modulus (G') corresponds to the energy which can be stored and released by the material.

Suitable first components include a cross-linked acrylic polymer such as a carbomer, for example,

Ultrez 10 and/or Carbopol ETD 2020 from Goodrich, and Structure 2000 and 3001 from National Starch.

Another suitable polymer is a cross-linked polyacrylamide such as Seppigel 305. Most preferably, the polymer of the first component is a copolymer of methyl vinyl ether and maleic anhydride cross-linked with dodecadiene available from ISP under the trade designation Antaron Stabilise 06.

Preferably, the depilatory composition includes from 0.1% to 3.0% by weight of the first component.

The second component is a linear non-ionic polymer and/or a positively charged polymer and/or a negatively charged polymer. The second, linear component is one which acts as a suspending agent for the gel and moderates the elastic modulus thereof to enable spreadability. Any suitable linear polymer may be chosen which enables the gel structure to be maintained at the osmotic pressure in the composition. Such linear polymers include hydrophilic polymers having a molecular weight of less than about 600 and non-ionic gel-forming polymers. For example, the second component may

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comprise a water-soluble non-ionic polymer such as polyethylenimine, polyethylene oxide or polyethylene glycol (PEG), a hydrophobically-modified polyol such as Acrysol 44 from Rohm and Haas, or a polyvinyl pyrrolidone such as PVP K from ISP or Luviskol from BASE.

Alternatively, or additionally, the second component may comprise a natural water-soluble polymer such as cellulose, hydroxypropyl cellulose, cetyl hydroxyethyl or propyl cellulose (for example Natrosol Plus from Aqualon), starch, polyglucoside, a polysaccharide such as an alginate, guar gum, carrageenan (lambda, kappa, iota), a sclerotium gum, a polypeptide with or without any alkyl chain (C1 to C18) modification and cationic end groups such as quaternary ammonium groups with counter ions such as chlorides and bromides, or a copolymer of sodium acrylate and dimethyl diallyl ammonium chloride (such as that known as Merquat), or a copolymer of hydroxy ethyl cellulose and dimethyl diallyl ammonium chloride (such as that known as Celquat).

Most preferably, the second component comprises polyethylenimine (such as that known under the trade name Lupasol from BASF) and/or polyvinyl pyrrolidone (such as that known under the trade designation PVP K-30 from ISP).

Preferably, the depilatory composition includes from 0.2% to 3.0% by weight of the second component.

The first and second components, when combined in accordance with the present invention, form a

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polymeric binder having unique viscosity and elasticity.

The depilatory agent may comprise any substance capable of degrading keratin and may be, for example, a sulphur compound such as potassium thioglycolate, dipotassium thioglycolate or thioglycerol.

Preferably, the depilatory composition includes from 0.1% to 6.0% by weight of depilatory agent, preferably from about 3.0% to 5.0%.

Also, the composition may optionally include component(s) which will accelerate the keratin reduction reaction such as urea, thiourea or dithioerythritol, dimethyl isosorbide (DMI), ethoxydiglycol (Transcutol) and methyl propyldiol (MP diol). DMI is preferred.

It is important that the pH of the composition is in the range of from about 10.5 to 13, and preferably about 11.0 to 12.5, to provide good depilation within about 5 minutes. In order to achieve this, a suitable buffer should be present, such as sodium silicate and/or L-arginine, sodium nicotinate and potassium polyethylenimine or a phosphate.

25 Generally, the buffer system will be present in an amount of from about 2.0% to 8.0% by weight, preferably from about 2.0% to 4.0% by weight.

Advantageously, the buffer system comprises from 2.0% to 3.0% by weight of L-arginine and from 0 to 1.0% by weight of polyethylenimine.

The pH buffer system preferably ensures efficacy of the depilation within 5 minutes whilst also minimizing skin irritation.

- In order to achieve minimum skin irritation, a composition including L-arginine and/or polyethylenimine, urea and potassium and/or dipotassium thioglycolate is preferred.
- In accordance with a preferred depilatory composition of the present invention, there is provided an aqueous alkaline gel comprising:
- (i) 0.1% to 3.0% w/w of a first polymeric binder comprising a charged, cross-linked,
 15 water-soluble polymer, preferably a copolymer of methyl vinyl ether and maleic anhydride cross-linked with dodecadiene;
- (ii) 0.2% to 3.0% w/w of a second polymeric

 binder comprising a linear, water-soluble
 polymer, preferably polyethylenimine
 and/or polyvinyl pyrrolidone;
- (iv) 2.0% to 6.0% w/w, preferably 2.0% to
 4.0% w/w of a buffer system, preferably
 L-arginine and/or polyethylenimine; and,
 optionally,

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(v) 5.0% to 10.0% w/w of an acelerator for the degradation of keratin, preferably urea;

whereby the composition preferably remains in the form of an aqueous alkaline gel in use.

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The gels according to the present invention are preferably transparent and remain transparent in use, depending on the amount of active ingredients present and on the procedure of mixing. Generally, they have a thick, rich feel and excellent rinsability with water. Moreover it is not necessary to include a surfactant in the compositions of the present invention, and hence they are less likely to cause skin damage.

Due to the special rheology of the polymeric binder, it is possible to include beads, dyes and/or oily particles which will remain dispersed in the gel. Optional excipients include compounds for soothing the skin such as azulene or jojoba and polyethylene glycol ester to reduce irritation. 20 Suitable beads include encapsulated algae extract and sweet almond oil (Elespher). It is also possible to include hydrating, accelerating and/or reducing agents in beads. For example, water-soluble

25 thioglycerol can be included in beads, so that these actives are encapsulated.

materials such as urea, potassium thioglycolate or

Although it is possible to provide a gel in accordance with the present invention that has visco-elastic properties suitable for spraying, the depilatory material may alternatively be applied by

means of a roll-on device or in conventional shower gel packaging.

Other ingredients may be included in the compositions of the invention, such as are known in the art.

Unless otherwise stated, all percentage weights referred to herein are % weights based on the weight of the total composition.

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For a better understanding of the invention and to show how the same may be carried into effect, reference will now be made, by way of example, to the accompanying drawings, in which:-

- Figure 1 is a graph of shear stress (Pa) against shear rate (s⁻¹) for a series of polymeric binders (first component) for the composition of the invention;
- Figure 2 is a graph of the yield points (Pa) of the binders of Figure 1 against the cross-linked polymer (first component) contents (% w/w) of the binders;

Figure 3 is a graph of viscosities (Pas) of the binders of Figure 1 against the shear rate (s⁻¹) of the binders; and

Figure 4 is a graph of the elastic (G') and viscous (G'') moduli against stress/strain (Pa) of the first component of the composition.

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The following Examples illustrate the invention:



EXAMPLES 1 TO 6

A series of depilatory gels was prepared having the compositions shown in the following Table 1:

5 TABLE 1

	TABLE I						
		1	2	3	4	5	6
	Phase 1						
	Polymer A	3.0%	2.5%	2.25%	2.0%	1.5%	1.0%
10	deionised water	47.0%	39.0%	36.35%	31.4%	23.5%	15.7%
	Phase 2						
	Polymer B	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%
	pH buffer	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%
15	deionised	10.7%	19.2%	24.8%	26.4%	38.3%	45.8%
13	water						
	Phase 3						
	potassium	14.7%	14.7%	14.7%	14.7%	14.7%	14.7%
	thioglycolate				-		
20	(30%)						
20	urea	8.0%	8.0%	8.0%	8.0%	8.0%	8.0%
	Final mix						
	Phase 1	50.0%	41.5%	37.5%	33.4%	25.0%	16.7%
٠	Phase 2	15.7%	24.2%	29.8%	33.4%	43.3%	50.8%
25	Phase 3	22.7%	22.7%	22.7%	22.7%	22.7%	22.7%
	Potassium	11.6%	11.6%	10.0%	10.5%	9.0%	9.8%
	hydroxide 50%						
	Total	100%	100%	100%	100%	100%	100%
	Total deionised	57.5%	58.0%	59.9%	59.6%	1.69	61.3%
30) water				1		

All amounts are expressed as % weight/weight total composition. Polymer A was a methyl vinyl ether/maleic anhydride copolymer cross-linked with dodecadiene known under the trade designation Antaron ST06 from ISP; and polymer B was polyvinyl pyrrolidone known under the trade designation PVP K-30 from ISP. The pH buffer system was a combination of 2% w/w of L-arginine and 1% w/w of polyethylenimine.

In each case, an Olsa mixer with planar stirring and a high shear stirrer equipped with a vacuum and heating/cooling system was used. The procedure was as follows:

Phase 1: Premix polymer A and water.

The water was placed in the mixer and polymer A
was added slowly with stirring. When the polymer had
been dispersed, heating was commenced whilst
maintaining a vacuum of about 0.5 to 0.8 bar to avoid
air bubbles. The vacuum pump was operating
intermittently in order to reduce water loss. When
the temperature had reached about 80°C an almost
clear gel had been formed. This was allowed to cool
and swell overnight.

Phase 2: Premix polymer B, water, pH buffer

The water and polymer B were introduced into the mixer and homogenised for 2 minutes. The pH buffer system was then added and the mixture homogenised for a further 2 minutes.

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Phase 3: Urea and potassium thioglycolate

The urea was added to the potassium thioglycolate in a beaker and stirred for 1 hour to complete dissolution.

Final mixing: The final mixing was effected as
follows:-

Phase 2 was placed in the vessel and phase 3 was added with stirring for 15 minutes. A white precipitate appeared. Phase 1 was added while mixing slowly under vacuum (0.5 bar) with planar stirring and the high shear stirrer operated at low speed. The mixture was homogenised for 30 minutes until a lumpy gel had been formed. The potassium hydroxide was then added. The gel became clear and transparent. The pH was adjusted, as necessary, to from 11.0 to 12.5.

Each of the resultant gels was subjected to rheological measurement. The parameters considered were shear stress, shear rate, viscosity and yield point. The results are shown in the Figures.

As can be seen from Figure 1, the variation of shear stress with shear rate is non-linear between 0 and 500 s⁻¹ and thus the gel has a non-Newtonian behaviour with a yield point. The yield point is the stress required to make the gel flow. Figure 2 shows that the variation of the yield point (TauO), i.e. the shear stress for zero shear rate, varies exponentially. For a small variation in the amount of polymer A, the variation in the yield point, i.e. the variation in spreadability or consistency, may be significant.

The following table, Table 2, gives characteristic shear rates of products to be sprayed with a conventional pump spray and products to be applied from a shower gel packaging.

5 TABLE 2

Type of packaging	Flow Rate (from packaging) of product (cm ³ /s)	Radius of the external output (cm)	Shear rate (s ⁻¹)
10 Pump Spray	0.17	0.0175 (radius of the actuator)	500-40000
Shower gel packaging	8.8	ca 0.15	500-30000

The relationship between shear rate and viscosity is shown in Figure 3, from which it can be seen that, at the shear rates given in Table 2, the viscosity is very low.

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It has been found that, in order for the gel to be sprayable with a pump spray, its yield point should be not more than from 100 to 200 Pa. If, however, the gel is to be used in a shower gel pack, the yield point may be as high as 300 Pa. Also, in order for the product to remain still for 5 minutes on the skin when held vertical, the yield point needs to be about 60 Pa or more. Thus gels wherein polymer A constitutes from 2.0% to 2.5% w/w are preferred for spraying, whereas rather lower percentages of polymer A may be present where the gel is to be used in the form of a shower gel packaging.

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In a further series of experiments, the blue powder Azulene was dissolved in thick paraffin oil to produce a 1% w/w solution. 2% w/w of this solution was then slowly added to each of the above gels and stirred for 5 minutes. The Azulene remained stably suspended within the gel in the form of blue oily droplets. Depending upon the concentration of Azulene in the premix and the concentration of premix in the gel, the size and colour of the droplets and the overall transparency of the gel could be adjusted.

In a further series of experiments, 0.5% w/w of Elespher was slowly added to each gel and stirred for 5 minutes. Elespher consists of encapsulated beads of algae extract and sweet almond oil, and is green in colour. The beads were stably suspended in the gel.

EXAMPLE 7

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Gels were made in accordance with the following Table 3:

TABLE 3

5	%w/w
Phase 1	
polymer A	1-3
water	40.0
0 KOH 50%	4.0
Total phase 1	47.0

Phase 2	
polymer B	0.6-3
buffer system	3.0
5 water	8.2
Total phase 2	11.8
Phase 3	
water	6.5
potassium thioglycolate (30%)	14.7
Total phase 3	29.2
water	to 100.0
KOH 50%	6.15

The amount of water was varied depending upon the amounts of polymers A and B present. Polymers A and B were as used in Examples 1 to 6 and the mixing technique employed was as described in those Examples. In each case, stable, sprayable depilatory gels were obtained. This showed that for a range of polymer A between 1.0% and 3.0%, a range of polymer B between 0.6% and 3.0% could be used and a stable, sprayable gel formed.

CLAIMS

 A depilatory composition in the form of an aqueous alkaline gel comprising:

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- (i) a first polymeric binder comprising a charged, cross-linked, water-soluble polymer;
- (ii) a second polymeric binder comprising a
 linear, water-soluble polymer;
 - (iii) a depilatory agent; and
- (iv) a buffer system capable of maintaining the pH of the composition at a value of from 10.5 to 13.0.
 - 2. A depilatory composition as claimed in claim 1, wherein the cross-linked polymer of the first component is a cross-linked acrylic polymer, a cross-linked polyacrylamide or a copolymer of methyl vinyl ether and maleic anhydride cross-linked with dodecadiene.
- A depilatory composition as claimed in claim 1 or
 which includes from 0.1 to 3.0% w/w of the first
 component.
 - 4. A depilatory composition as claimed in any of claims 1 to 3, wherein the second component comprises a linear, non-ionic polymer and/or positively charged polymer and/or negatively charged polymer.

WO 98/44898

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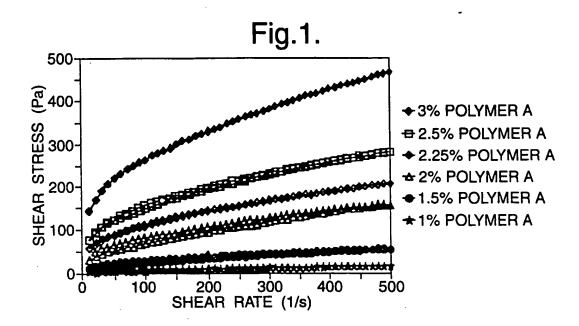
- 5. A depilatory composition as claimed in claim 4, wherein the second component comprises one or more of polyethylenimine, polyvinyl pyrrolidone, polyethylene oxide, polyethylene glycol, cellulose, hydroxy propyl cellulose, cetyl hydroxy ethyl cellulose, cetyl hydroxy propyl cellulose, starch, a polyglucoside, a polysaccharide, guar gum, carrageenan, a sclerotium gum, a polypeptide, and a copolymer of sodium acrylate or of hydroxy ethyl cellulose with dimethyl diallyl ammonium chloride.
- 10 6. A depilatory composition as claimed in any preceding claim, which includes from 0.2 to 3.0% w/w of the second component.
- 7. A depilatory composition as claimed in any preceding claim, wherein the depilatory agent is potassium thioglycolate or thioglycerol.
- 8. A depilatory composition as claimed in any preceding claim, including an accelerator for the degradation of keratin, such as urea, thiourea, dithioerythritol, ethoxydiglycol or methylpropyldiol.
 - 9. A depilatory composition as claimed in any preceding claim, including a buffer system comprising a silicate, arginine such as L-arginine, a nicotinate, polyethylenimine or a phosphate.
 - 10. A depilatory composition as claimed in any preceding claim and having a yield point of not more than 200 Pa.

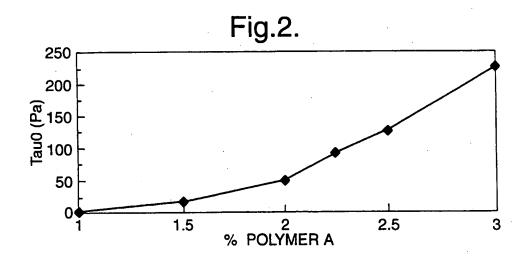
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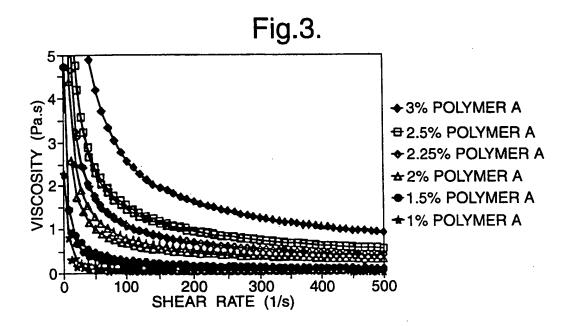
11. A depilatory composition as claimed in any preceding claim, wherein the shear rate needed to decrease the viscosity of the gel by half is in the range of from $10^{-2} \, \text{s}^{-1}$ to 200 s^{-1} , preferably from 1 s^{-1} to 50 s^{-1} .

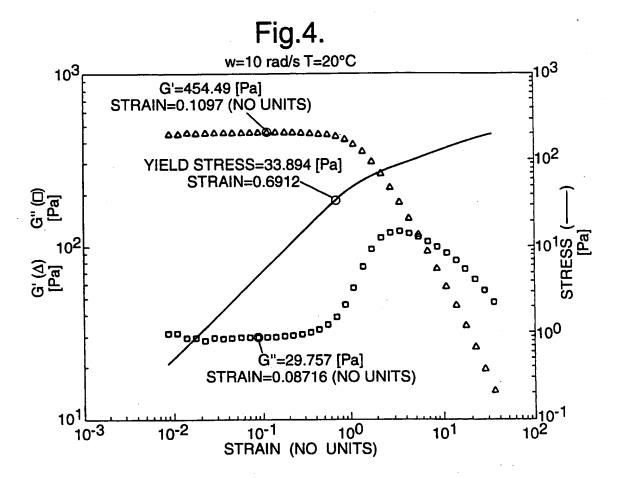
12. A depilatory composition as claimed in any preceding claim, in the form of a sprayable gel.

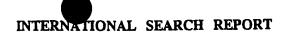
- 13. A process for producing a depilatory composition 10 as claimed in any preceding claim, which process comprises:-
 - (i) forming a first premix by mixing water and the first component; forming a second premix by mixing water, a buffer and the second component; and optionally forming a third premix by mixing a depilatory agent and a keratin degradation accelerator;
- (ii) adding a depilatory agent or the third premix to the second premix with stirring;
 - (iii) adding the first premix to the resultant mixture with stirring; and
 - (iv) adjusting the pH to between 10.5 to 13.0.











In attachapplication No PCT/GB 98/00950

	FICATION OF SUBJECT MATTER A61K7/155		
According to	o International Patent Classification (IPC) or to both national classif	ication and IPC	
	SEARCHED		
Minimum do	ocumentation searched (classification system followed by classification $A61K$	ition symbols)	
Documental	tion searched other than minimum documentation to the extent that	such documents are included in the fields sea	irched
Flectronic d	data base consulted during the international search (name of data	base and, where practical, search terms used)	
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······	ENTS CONSIDERED TO BE RELEVANT		Delevient to eleim No.
Category :	Citation of document, with indication, where appropriate, of the	relevant passages	Relevant to claim No
X	WO 91 02538 A (JOHN MORRIS CO.,	INC.) 7	1
	March 1991		
	see example 9		
Α	EP 0 196 896 A (NITTO ELECTRIC	IND. CO.,	1
	LTD) 8 October 1986		
Α	US 4 842 610 A (H. GORDON ET AL) 27 June	1
	1989		
Α	DATABASE "CHEMICAL ABSTRACTS" (HOST: STN),	1
	Abs.110: 198 956, Colombus, OH,		
	& JP 63 313 618 (OSAKA AEROSOL 21 December 1988	IND. CO.)	
	XP002071920		
A,P	FR 2 751 873 A (C. DES GARETS)	6 February	1
''''	1998	o rest duty	
Fur	rther documents are listed in the continuation of box C.	Patent family members are listed	I in annex.
' Special c	categories of cited documents :	"T" later document published after the int	ernational filing date
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	r document but published on or after the international date	"X" document of particular relevance; the cannot be considered novel or cannot be considered nov	claimed invention of be considered to
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later	than the priority date claimed	"&" document member of the same pater Date of mailing of the international se	
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1	Fax: (+31-70) 340-2040, 1X. 31 651 epo ni,	Glikman, J-F	

Information on patent family members

PCT/GB 98/00950

Patent docume cited in search re		Publication date		Patent family member(s)	Publication date
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			JP	4080682 B	21-12-1992
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			US	4830633 A	16-05-1989
US 4842610	Α	27-06-1989	NONI	-	
FR 2751873	A	06-02-1998	NON		

COMBINED DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I Séverine POETTE hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am an original, first and joint inventor, together with Bruno GUILLAUME, Philippe LEDON, Annick CANELAS, David ACHER, Gerd DAHMS, Sarah DESMOTS and Hubert DELAGNEAU, of the subject matter which is claimed and for which a patent is sought on the invention entitled **DEPILATORY COMPOSITIONS, THEIR PREPARATION AND USE**, the specification of which:

was filed on <u>September 24, 1999</u> as Application Serial No. <u>09/381,890</u> and, was described and claimed in PCT International Application No. <u>PCT/GB98/00950</u> filed on <u>30 March 1998</u>.

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose all information I know to be material to patentability in accordance with Title 37, Code of Federal Regulations, §1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, §119 of any foreign application(s) for patent or inventor's certificate or of any PCT international application(s) designating at least one country other than the United States of America listed below and have also identified below any foreign application for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States of America filed by me on the same subject matter having a filing date before that of the application(s) of which priority is claimed:

Country	Application No	Filing Date	Priority Claimed
European	97400811.2	9 April 1997	[X] Yes [] No
British	9711447.4	4 June 1997	[X] Yes [] No

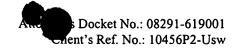
I hereby appoint the following attorneys and/or agents to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith:

Frederick H. Rabin, Reg. No. 24,488 William J. Hone, Reg. No. 26,739 Stephan J. Filipek, Reg. No. 33,384 Stuart Macphail, Reg. No. 44,217 David R. Francescani, Reg. No. 25,159 Jack Brennan, Reg. No. 47,443 John B. Pegram, Reg. No. 25,198 Richard P. Ferrara, Reg. No. 30,632 Samuel Borodach, Reg. No. 38,388 Chris T. Mizumoto, Reg. No. 42,899 Edmond R. Bannon, Reg. No. 32,110

Address all telephone calls to FREDERICK H. RABIN at telephone number (212) 765-5070.

Address all correspondence to FREDERICK H. RABIN at:

FISH & RICHARDSON P.C. 45 Rockefeller Plaza, Suite 2800 New York, New York10111



Combined Declaration and Power of Attorney Page 2 of 2 Pages

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patents issued thereon.

Full Name of Inventor:	SÉVERINE POETTE		
Inventor's Signature:	· 	Date:	
Residence Address:	Dampierre sur Avre		
Citizenship:	France		
Post Office Address:	2 chemin de la Bouverie		
	F-28350 Dampierre sur Avre		
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Orig. ID: NYCA From: MARYANN WHITE (212) 641 -2378 FISH AND RICHARDSON P.C 45 ROCKEFELLER PLAZE SUITE 2800 NEW YORK NY 10111 (US)

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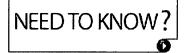


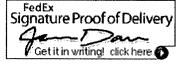
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Sarah DESMOTS et al.

Int'l Appln. No.

PCT/GB98/00950

Int'l Filing Date:

30 March 1998

U.S. Serial No.:

09/381,890

Title:

DEPILATORY COMPOSITIONS, THEIR PREPARATION AND USE

DECLARATION RE INVENTOR SÉVERINE POETTE

- I, Karen R. Grant, declare as follows:
- 1. I am a Formalities Officer in the Group Patents Department of Reckitt Benckiser plc.
- 2. A previous attempt to obtain a Combined Declaration and Power of Attorney from Séverine Poette was unsuccessful. This attempt was documented as Exhibit J attached to the Declaration of Amanda J. Wilde of 4 February 2002, which was filed herein on 21 February 2002.
- 3. On 20 November 2002, Mr. Frederick H. Rabin made another attempt to secure Ms. Poette's signature. Specifically, he sent her a new Combined Declaration and Power of Attorney, which was attached to a copy of PCT published application WO 98/44898. A copy of Mr. Rabin's letter to Ms. Poette was sent to Ms. Amanda Wilde, my predecessor, and was received by me.
- 4. On 3 January 2003, Mr. Rabin informed me that the material sent to Ms. Poette was returned as undeliverable, but also informed me of the results of a search he had done in the pagesjaune.fr database. No results were found for Séverine Poette, but Mr. Rabin reported an address for a Séverine Hemery, Ms. Poette's former name, under which this application had originally been filed.
- 6. On 6 February 2003, I telephoned Ms. Poette at the number Mr. Rabin had given me which was 33-2 3230 4613, and got the impression that Ms. Poette was willing to sign the documents required to have this application properly filed in the United States. I cannot be certain that she gave me an unconditional

Attorney's Docket No.: 08291-619001 / 10456P2-Usw

promise to sign the documents since I do not claim to be fluent in French; however, I gained a distinct impression that she would be willing to sign and I so informed Mr. Rabin.

I declare that all statements made herein of my knowledge are true and all statements made on information and belief are believed to be true and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. Section 1001 and that such willful false statements may jeopardize the validity of this application or any patents issuing thereon.

Signed at Kingston upon Hull, England, this 215 day of February 2003

Rent

Karen R. Grant

10456P2 USw - Poette Decl